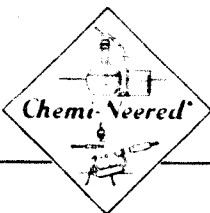


DMS 1829

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TECHNICAL DATA

PEMACO INC.

 PEMS-OILS • PEMSOLVES-BLENDS
 CHEMICALS • SOLVENTS • FORMULATORS

(213) 581-7185

PEMS XP-004W

Typical Specifications

Viscosity, SUS@100°F	447
Specific Gravity @60°F	1.0022
Pounds/gallon	8.35
pH, concentrate	9.4
pH, 5% solution	9.1

The PEMS XP-004W is semi-synthetic metalworking fluid. It incorporates the best properties of a synthetic coolant and the best properties of a conventional soluble oil. It provides the lubricity of a conventional soluble oil, and cooling and transparency of the synthetic coolant. Specially developed additives provide the highest load carrying capabilities (EP) for prolonged tool life and excellent lubricity for good surface finishes.

The XP-004W solutions are highly resistant to bacterial action due to the use of potent biocides. Superior rust inhibitors will prevent rust and corrosion on both the ferrous and non-ferrous metals.

The PEMS XP-004W, in addition to form, surface and centerless grinding, is also recommended for abrasive belt grinding and for abrasive cut-off wheels. The XP-004W can be used equally effective on ferrou and non-ferrous metals. Dilutions of 15/1 to 50/1 are recommended for grinding operations.

The PEMS XP-004W is also appicable to machining ferrous and non-ferrous metals. It provides excellent lubricity and load carrying properties to insure the best possible tool life. It is recommended for a variety of machining applications including turning, sawing, boring, milling, broaching and drilling. Dilutions of 5/1 to 30/1 are recommended for machining operations.

jps-5/82

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME Pemaco Inc.		EMERGENCY TELEPHONE NO. (213) 581-7189
ADDRESS (Number, Street, City, State and ZIP Code) 5989 District Blvd., Maywood, Ca., 90270		
CHEMICAL NAME AND SYNONYMS Metalworking Fluid		TRADE NAME AND SYNONYMS PEMS XP-002W
CHEMICAL FAMILY Synthetic	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	210-215	SPECIFIC GRAVITY (H ₂ O=1)	1.0491
VAPOR PRESSURE (mm Hg.)		PERCENT, VOLATILE BY VOLUME (%)	69.0
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER	Soluble		
APPEARANCE AND ODOR Blue clear liquid with characteristic odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	none to boiling	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Water			
SPECIAL FIRE FIGHTING PROCEDURES	none			
UNUSUAL FIRE AND EXPLOSION HAZARDS				
none				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

not established

EFFECTS OF OVEREXPOSURE

Slight irritation to skin and eyes.

EMERGENCY AND FIRST AID PROCEDURES

Skin - wash with copious quantities of water

Eyes - flush with water for at least 15 minutes.

Ingestion - induce vomiting; get medical attention.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

INCOMPATIBILITY

HAZARDOUS DECOMPOSITION PRODUCT

CO, CO₂, SO_x, NO_x when combusted.HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Absorb with clay or other inert material.

WASTE DISPOSAL METHOD

Flush with water into an approved oil sewer.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION SPECIAL TIPS

None required unless oil is misting or vapors are formed.

VENTILATION

LOCAL EXHAUST

As required if mist is generated.

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

Oil resistant gloves.

EYE PROTECTION

Goggles if oil is splashed or sprayed.

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid breathing of mist or vapors. Avoid prolonged contact with skin.

OTHER PRECAUTIONS

Laundry clothing before reuse. Wash hands and face before eating or smoking.